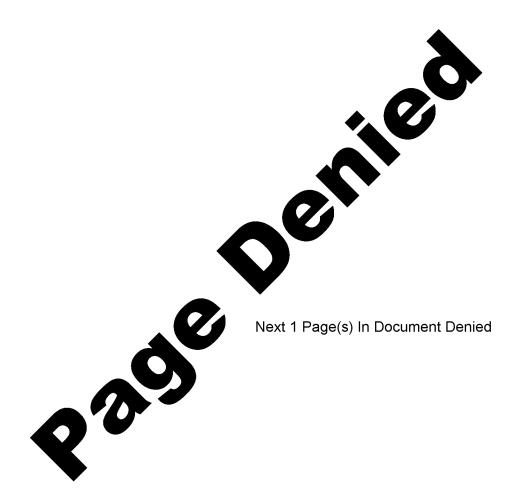
	Secs. 793 and 794, the transmission or reve C O	NFIDENT OFOREIGN DIS	I			
UNTRY	Yugoslavia 1. Semipassive Repeaters Bridges 2. Transistorized Circuit Ionization Chambers		DATE DISTR. NO. PAGES REFERENCES	16 NOY 1 1 RD	50X1-HUM	50X1-HUM
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	Bridges, and (2) Transisto	entitled (1) orized Circuit	<u>Semipassive</u> s for Ioniz a t	Repeater ion Cham	bers.	
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SUBJG: Transistor	rized Circuits for Ionization Chambers	50X1-H
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which is not high; under determined of not lend themselves for ionization character hand, espec	ed that transistor circuits always show an inguity with special transistors, with a low base conditions, to reach the 106 - 107 ohm level es, however, to compose the input stage of ambers. A general application would be verestally insofar as it pertains to monitoring age to be, obviously, very sturdy (anticollision,	current, it is possible. The transistors do mplifiers or electrome ry interesting, on the pparatus for rediological
have measured in a to the chamber) is for the base/colle and detected in ph the entrance of the theoretically infi- the balance modula amplification intr	cists at Vinca the Borts Kidric Institute of detail a suitable circuit in this range. The scomposed of a "balanced modulator with diocetor juntions of silicon transistors), we whave, emerges as the autobalance. For balance balance modulator (which is the diagonal inite; in order for a signal to emerge it is ator (that is the bridge) to balanced, if one coduced between the bilance modulator and the that the balancing be miniumum; the input im	e input stage (connected des" (as diodes are us hich the the the impedence at of the bridge) is obviously neces ary fly slightly; if the e phase detector is his
	il gain of 104 , the input impedence is 10^{12} ionization chamber.	ohms, amply sufficient
interference ratio capacity in the gathe velocity of the	ce modulator is made to function at 500 kes above, the aplification is selective on this free ap is extremely small (in parallel at the baine response of the device is remarkable and	quen cy. Because the lance modulator 10 p^E)
ob sinable with el	lectrometrical tubes.	•
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dipoles, picking up other amplifying ele "regeneration" of the is as follows: the of the signal/interfreduced; the semipas by a gain in power to signal/interference diodes	t 200 mcs, by which the "real" wo	hout the interpositioning of , in which there is a fect, with a gain in power, d by a sensitive worsening stilization is therefore , is characterized above all which the worsening of the general, with the tunnel , the noise factor itself
inserted directly ir oscillating circuits By such means the "r	f the system is also the fact that the the dipole without the interpolation of imperpeater" may also be composed of diode), assuming together the fullified signal.	positioning of lines or pedence and without loss. a single dipole (in which i
worth the extensive accurate: in reality	ne system is technically very interesearch. The name "semipassive" y this is an "active" repeater who adduced to a minimum and unified or	" is not completely 50X1-H cose amplifying elements

